

## Ensinger TECATEC™ CF60 Polyaryletherketone (PAEK)

Category : Polymer , Thermoplastic , Polyketone , Polyaryletherketone (PAEK), Carbon Fiber Filled

### Material Notes:

TECATEC™ CF60 plate is a composite of 60% woven carbon fiber laminated with a polyaryl ether ketone resin (PAEK). It is produced in a proprietary process yielding good fibre and resin integration. PAEK resins are excellent for repeated steam sterilization cycles and carbon provides metal like dimensional stability and stiffness. Carbon fibre composites are radiolucent and are ideal for external fixation devices and surgical instruments such as targeting fixtures and retractor blades. It is commonly used in medical technology (surgery, orthopaedics) and is used as targeting guides, retractor blades, fixturing assemblies, and structural components. Properties Outstanding strength Excellent heat distortion Good dimensional stability Low moisture absorption Corrosion resistance Excellent chemical resistance Excellent steam sterilization in autoclave performance Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-TECATEC-CF60-Polyaryletherketone-PAEK.php](http://www.lookpolymers.com/polymer_Ensinger-TECATEC-CF60-Polyaryletherketone-PAEK.php)

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	728.8 MPa	105700 psi	Fill; EN2597B
	820.8 MPa	119000 psi	Warp; EN2597B
Tensile Modulus	54.0 GPa	7830 ksi	Warp; EN2597B
	55.79 GPa	8091 ksi	Fill; EN2597B
Flexural Strength	803.79 MPa	116580 psi	Warp; EN 2562A
	893.77 MPa	129630 psi	Fill; EN 2562A
Flexural Modulus	40.79 GPa	5916 ksi	Warp; EN 2562A
	51.39 GPa	7453 ksi	Fill; EN 2562A
Compressive Strength	521.9 MPa	75690 psi	Fill; D 6641-01
	573.9 MPa	83230 psi	Warp; D 6641-01
Compressive Modulus	52.68 GPa	7641 ksi	Warp; ASTM D6641-01
	53.19 GPa	7714 ksi	Fill; ASTM D6641-01

Descriptive Properties	Value	Comments
Short Beam Strength	9729	psi, ASTM D2344-84, Warp

## Contact Songhan Plastic Technology Co.,Ltd.

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